19621,412

=> file biosis medline caplus wpids uspatfull

COST IN U.S. DOLLARS

SINCE FILE ENTRY

TOTAL SESSION

FULL ESTIMATED COST

0.21

0.21

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FILE 'MEDLINE' ENTERED AT 12:14:22 ON 13 JUN 2006

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FILE 'USPATFULL' ENTERED AT 12:14:22 ON 13 JUN 2006
CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

\*\*\* YOU HAVE NEW MAIL \*\*\*

=> s purif? (4a) RNA

L1 23672 PURIF? (4A) RNA

=> s 11 and (cellulose or acetylcellulose or triacetylcellulose or cellulose acetate)

L2 5843 L1 AND (CELLULOSE OR ACETYLCELLULOSE OR TRIACETYLCELLULOSE OR

CELLULOSE ACETATE)

=> s 12 and solid phase

L3 2744 L2 AND SOLID PHASE

=> s 13 and beads

L4 1878 L3 AND BEADS

=> s 14 and surfactant

L5 485 L4 AND SURFACTANT

=> s 15 and adsorbing

L6 7 L5 AND ADSORBING

=> s 16 and desorbing

L7 1 L6 AND DESORBING

=> d l1 bib abs

L1 ANSWER 1 OF 23672 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

AN 2006:305454 BIOSIS

DN PREV200600299724

TI Identification of a putative mitochondrial RNA polymerase from Physarum polycephalum: characterization, expression, purification, and transcription in vitro.

AU Miller, Mara L.; Antes, Travis J.; Qian, Fang; Miller, Dennis L. [Reprint Author]

CS Univ Texas, Dept Cell and Mol Biol, 2601 N Floyd Rd, Richardson, TX 75080 USA

dmiller@utdallas.edu

SO Current Genetics, (APR 2006) Vol. 49, No. 4, pp. 259-271. CODEN: CUGED5. ISSN: 0172-8083.

DT Article

LA English

ED Entered STN: 7 Jun 2006

Last Updated on STN: 7 Jun 2006

AB Mitochondrial RNA polymerases ( mtRNAPs) are necessary for the biogenesis

of mitochondria and for proper mitochondrial function since they transcribe genes on mtDNA for tRNAs, rRNAs, and mRNAs. The unique type of RNA editing identified in mitochondria of Physarum polycephalum is thought to be closely associated with transcription, and as such, RNA editing activity would be expected to be closely associated with the mtRNAP. order to better characterize the role of mtRNAPs in mitochondrial biogenesis and to determine the role of the Physarum mtRNAP in RNA editing, the cDNA of the Physarum mtRNAP was identified using PCR and degenerate primers designed from conserved motifs in mtRNAPs. This amplification product was used to screen a cDNA library for the cDNA corresponding to the Physarum mtRNAP. A cDNA corresponding to a 3.2 kb transcript containing a 997 codon open reading frame was identified. The amino acid sequence inferred from the open reading frame contains motifs characteristic of mtRNAPs. To confirm that a cDNA for an RNA polymerase had been isolated, the cDNA was expressed in E. coli as an N-terminal maltose binding protein ( MBP) fusion protein. The fusion protein was purified by afinity chromatography and shown to have DNA-directed RNA polymerase activity. This functional mtRNAP will be useful for in vitro studies of mitochondrial transcription and RNA editing.

## => d his

(FILE 'HOME' ENTERED AT 12:13:37 ON 13 JUN 2006)

FILE 'BIOSIS, MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 12:14:22 ON

=> s 13 and adsorbing L8 66 L3 AND ADSORBING

=> s 18 and desorbing L9 4 L8 AND DESORBING

=> dup rem 19
PROCESSING COMPLETED FOR L9
L10 4 DUP REM L9 (0 DUPLICATES REMOVED)

=> d 110 bib abs 1-4

L10 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN AN 2005:402693 CAPLUS

DN 142:426392

TI Separating and purifying nucleic acid with nucleic acid-adsorbing porous membrane of cellulose derivative

IN Kyono, Yoshiki; Makino, Yoshihiko PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 24 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2005118017	A2	20050512	JP 2003-359901	20031020
PRAI JP 2003-359901		20031020		

AB A method and apparatus for purification of nucleic acids via adsorption are disclosed. The nucleic acids purification unit consists of a nucleic acid separation purification cartridge equipped with a nucleic acid-adsorbing porous membrane, container which possesses at least 2 openings containing the nucleic acid-adsorbing porous membrane, and pressure difference generator attached to one of the openings. The method comprises the steps

```
of: (1) adsorbing the nucleic acid to the solid
     phase by allowing a sample solution containing the nucleic acid to come
     into contact with the nucleic acid-adsorbing solid
     phase; (2) washing the solid phase by allowing
     a washing solution to come into contact with the solid
     phase, while the nucleic acid is adsorbed to the solid
     phase; and (3) desorbing the nucleic acid from the
     solid phase by allowing a recovering solution to come into
     contact with the solid phase. Also part of the apparatus
     are a container, and a device for creating pressure gradient such pump.
     The porous membrane is made of cellulose derivative that dissolves
     within 48 h, but not in 1 h, when soaked in 5mL trifluoroacetic acid, or
     dissolves within 1 h when soaking in trifluoroacetic acid, but not within
     24 h in dichloro-methane 5mL. A mixed porous membrane of
     triacetylcellulose and biacetyl cellulose was
     successfully used to purify DNA and RNA.
    ANSWER 2 OF 4 USPATFULL on STN
       2005:131196 USPATFULL
      Method for isolating and purifying nucleic acid, cartridge for isolating
       and purifying nucleic acid, and kit isolating and purifying nucleic acid
       Iwaki, Yoshihide, Asaka-shi, JAPAN
       Fuji Photo Film Co., Ltd., Minami-Ashigara-shi, JAPAN (non-U.S.
       corporation)
      US 2005112656
                          A1
                               20050526
      US 2004-974681
                         A1
                               20041028 (10)
      JP 2003-371783
                           20031031
PRAI
       JP 2004-293641
                           20041006
      Utility
      APPLICATION
LREP
      BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747,
CLMN
      Number of Claims: 38
       Exemplary Claim: 1
       1 Drawing Page(s)
DRWN
LN.CNT 1834
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       The invention provides a method for isolating and purifying nucleic
       acids, which comprises: (1) passing a sample solution containing a
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AΒ

L10

AN

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PA

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FS

ECL

nucleic acid through a nucleic acid adsorbing porous membrane to adsorb the nucleic acid to the nucleic acid adsorbing porous membrane; (2) passing a washing solution through the nucleic acid adsorbing porous membrane to wash the nucleic acid adsorbing porous membrane while adsorbing the nucleic acid; and (3) passing an elution solution through the nucleic acid adsorbing porous membrane to desorb the nucleic acid from the nucleic acid adsorbing porous membrane, wherein the nucleic acid adsorbing porous membrane is a porous membrane capable of adsorbing the nucleic acid by interaction involving substantially no ionic bond, and a step of drying the nucleic acid adsorbing porous membrane adsorbing the nucleic acid is not included between the washing step (2) and the recovering step (3).

## CAS INDEXING IS AVAILABLE FOR THIS PATENT.

```
ANSWER 3 OF 4 USPATFULL on STN
L10
       2005:111547 USPATFULL
ΑN
TI
       Method for separation and purification method of nucleic acid
IN
       Komazawa, Hiroyuki, Saitama, JAPAN
       Iwaki, Yoshihide, Saitama, JAPAN
       Makino, Yoshihiko, Saitama, JAPAN
       Amano, Yoshikazu, Saitama, JAPAN
PΙ
       US 2005095626
                          A1
                               20050505
       US 2004-932138
AΙ
                         A1
                               20040902 (10)
       JP 2003-311335
PRAI
                           20030903
       JP 2003-312147
                           20030904
DT
       Utility
FS
       APPLICATION
```

LREP BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747,

CLMN Number of Claims: 28 ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 952

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention provides a rapid, convenient, and automatable method for extracting a highly pure nucleic acid in order to carry out nucleic acid analysis smoothly with high accuracy in an array method. An analyzing method includes analyzing a nucleic acid by an array method, the nucleic acid being separated and purified by a separation and purification method which includes the steps of (a) to (f) identified in the specification.

## CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 4 OF 4 USPATFULL on STN

AN 2004:76592 USPATFULL

TI Method for separating and purifying a nucleic acid

IN Mori, Toshihiro, Asaka-shi, JAPAN Makino, Yoshihiko, Asaka-shi, JAPAN

US 2004058370 A1 20040325

AI US 2003-621412 A1 20030718 (10)

PRAI JP 2002-210833 20020719

DT Utility

FS APPLICATION

LREP BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747

CLMN Number of Claims: 18
ECL Exemplary Claim: 1
DRWN 3 Drawing Page(s)

LN.CNT 951

PΙ

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An object of the present invention is to provide a method for separating and purifying a nucleic acid by adsorbing the nucleic acid in a test sample to a surface of a solid phase and desorbing the nucleic acid by washing and the like. The present invention provides a method for separating and purifying RNA from a nucleic acid mixture, comprising a step of: adsorbing and desorbing a nucleic acid in the nucleic acid mixture containing RNA and DNA to and from a solid phase of an organic macromolecule.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.